FIG. 1

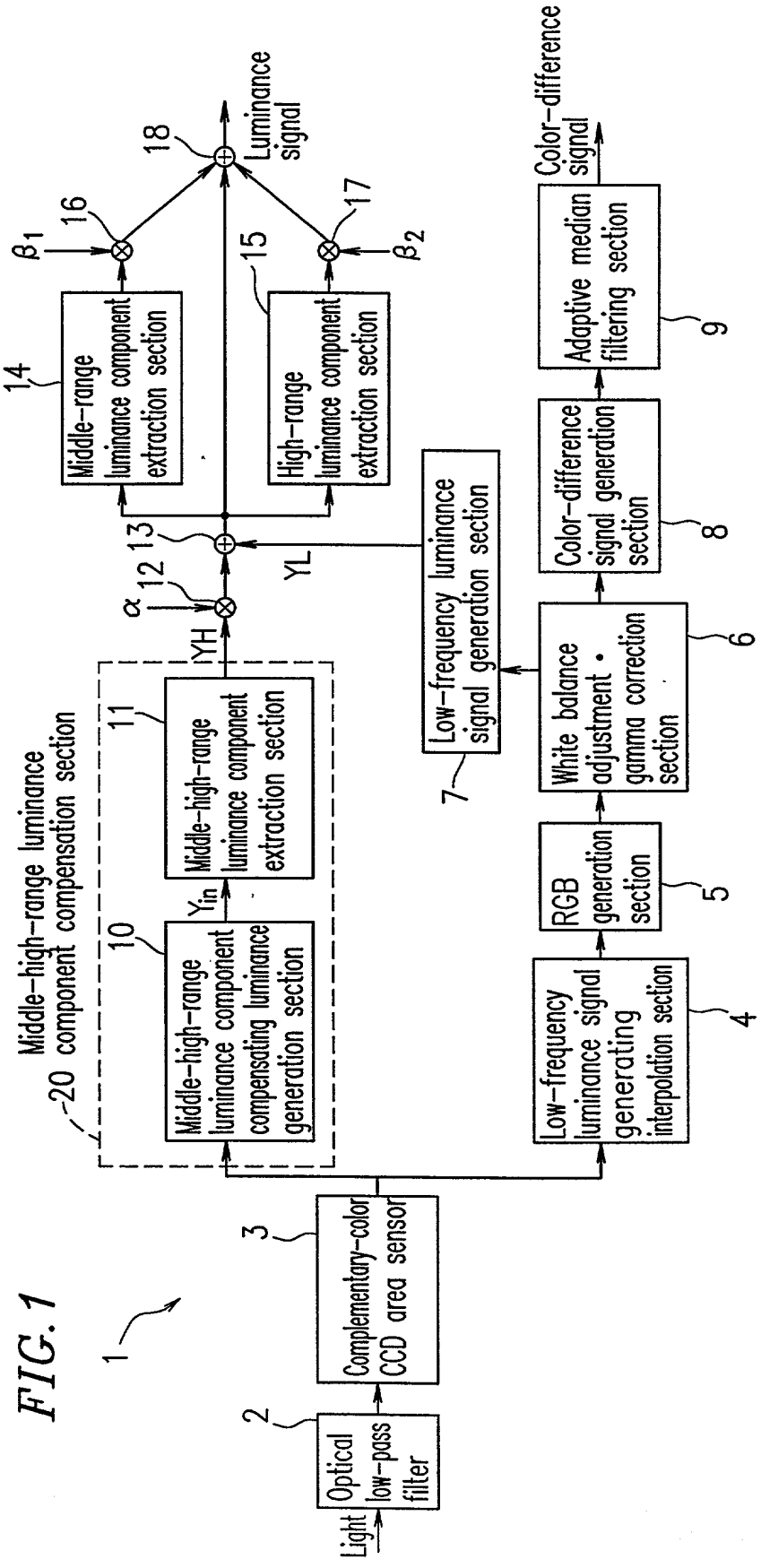
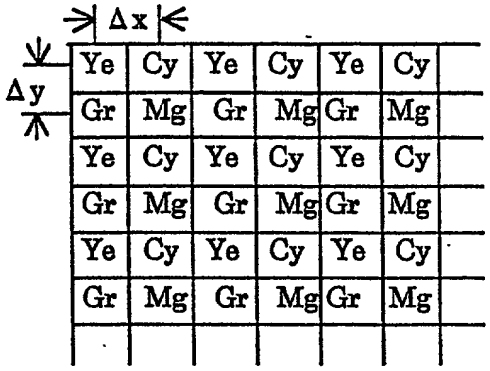


FIG.2



Color array of complementary-color filter

FIG.3

Ye1	Cy2	Ye3
Gr4	Mg5	Gr6
Ye7	Cy8	Ye9
Gr10	Mg11	Gr12

Part of color array of complementary-color filter of Fig.2

FIG. 4

y \ x	1/2	1	1/2
1/2	1/4	1/2	1/4
1	1/2	1	1/2
1/2	1/4	1/2	1/4

YeCyGrMg complementary filter

FIG. 5A

y \ x	1/16	-3/16	10/16	10/16	-3/16	1/16
1/16	1/256	-3/256	10/256	10/256	-3/256	1/256
-3/16	-3/256	9/256	-30/256	-30/256	9/256	-3/256
10/16	10/256	-30/256	100/256	100/256	-30/256	10/256
10/16	10/256	-30/256	100/256	100/256	-30/256	10/256
-3/16	-3/256	9/256	-30/256	-30/256	9/256	-3/256
1/16	1/256	-3/256	10/256	10/256	-3/256	1/256

First YH extraction filter F1

FIG. 5B

y \ x	1/8	3/8	3/8	1/8
1/8	1/64	3/64	3/64	1/64
3/8	3/64	9/64	9/64	3/64
3/8	3/64	9/64	9/64	3/64
1/8	1/64	3/64	3/64	1/64

Second YH extraction filter F2

FIG. 6

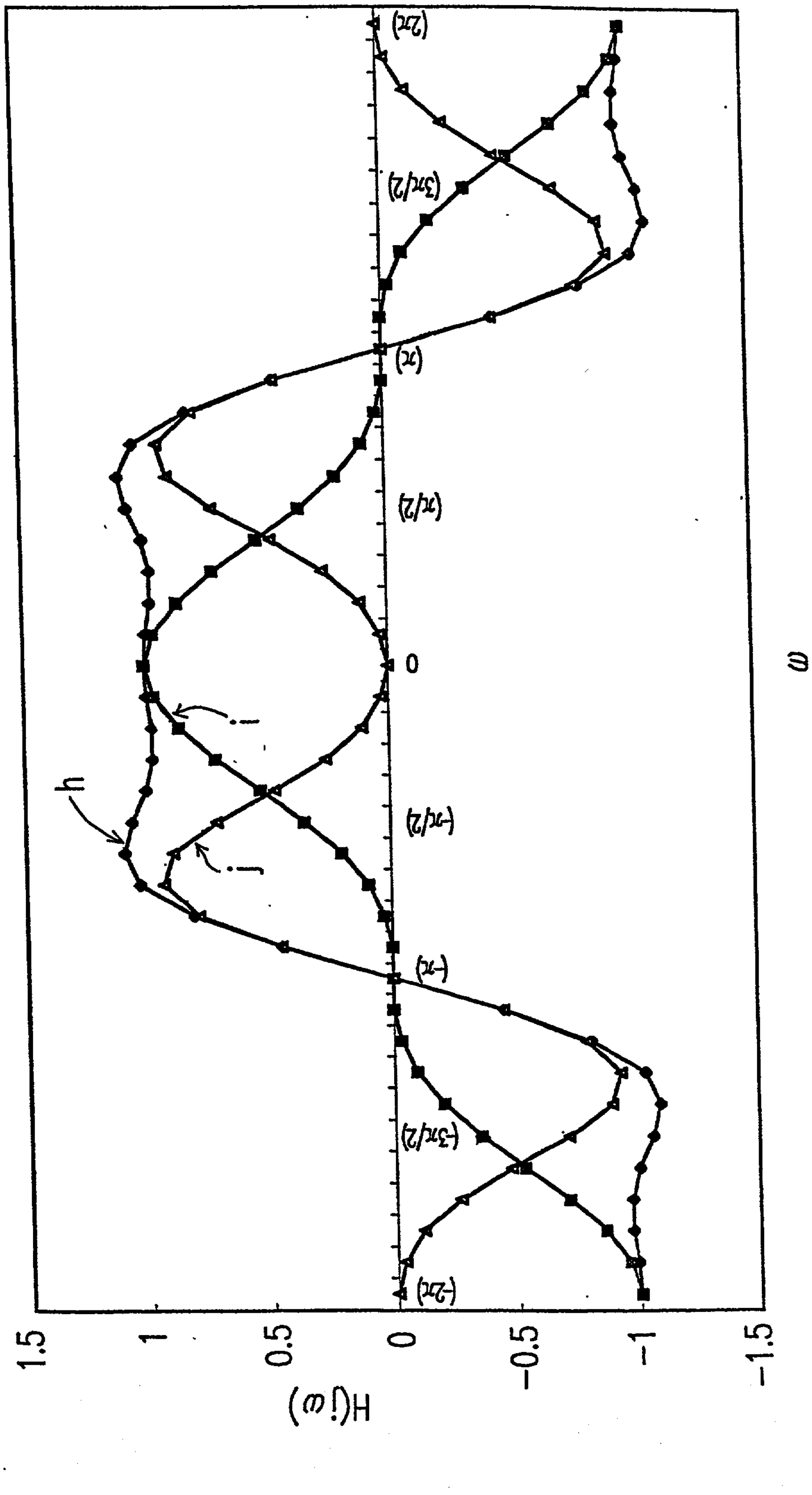
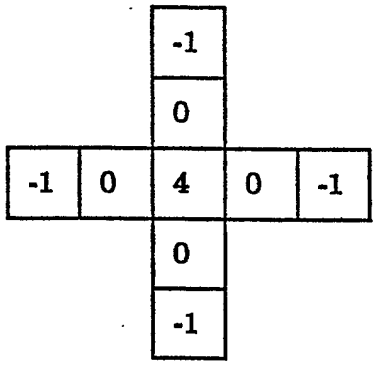
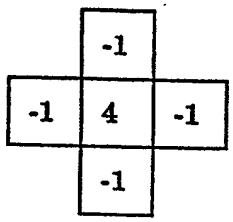


FIG. 7A



Middle-range luminance component extraction filter

FIG. 7B



High-range luminance component extraction filter

FIG.8

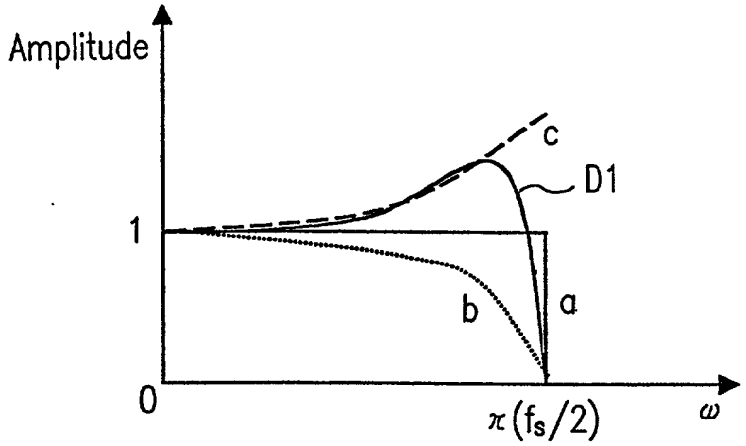


FIG.9

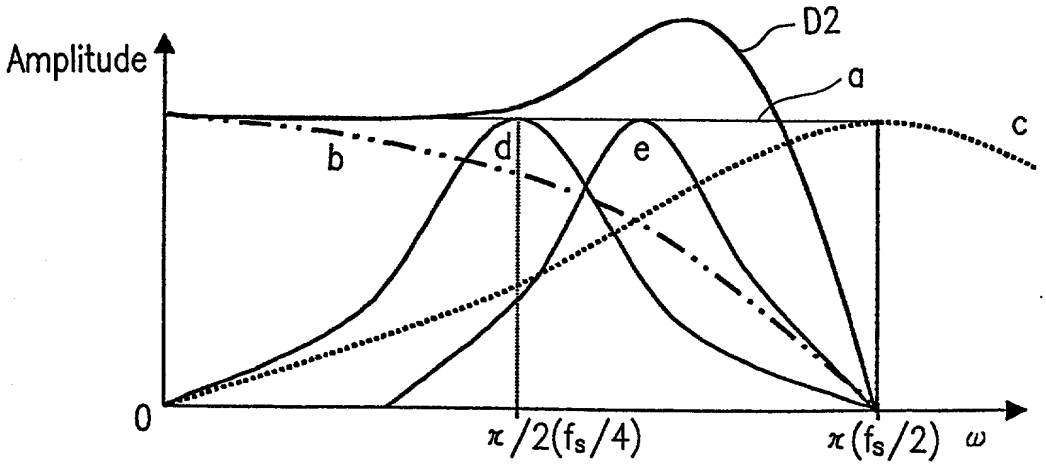


FIG. 10

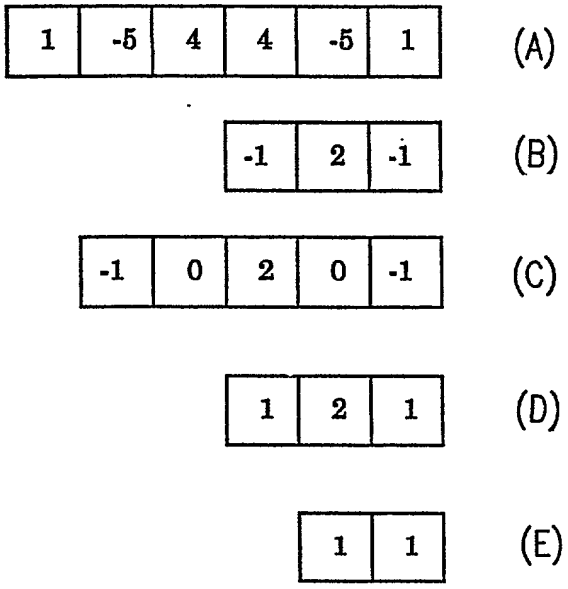


FIG. 11

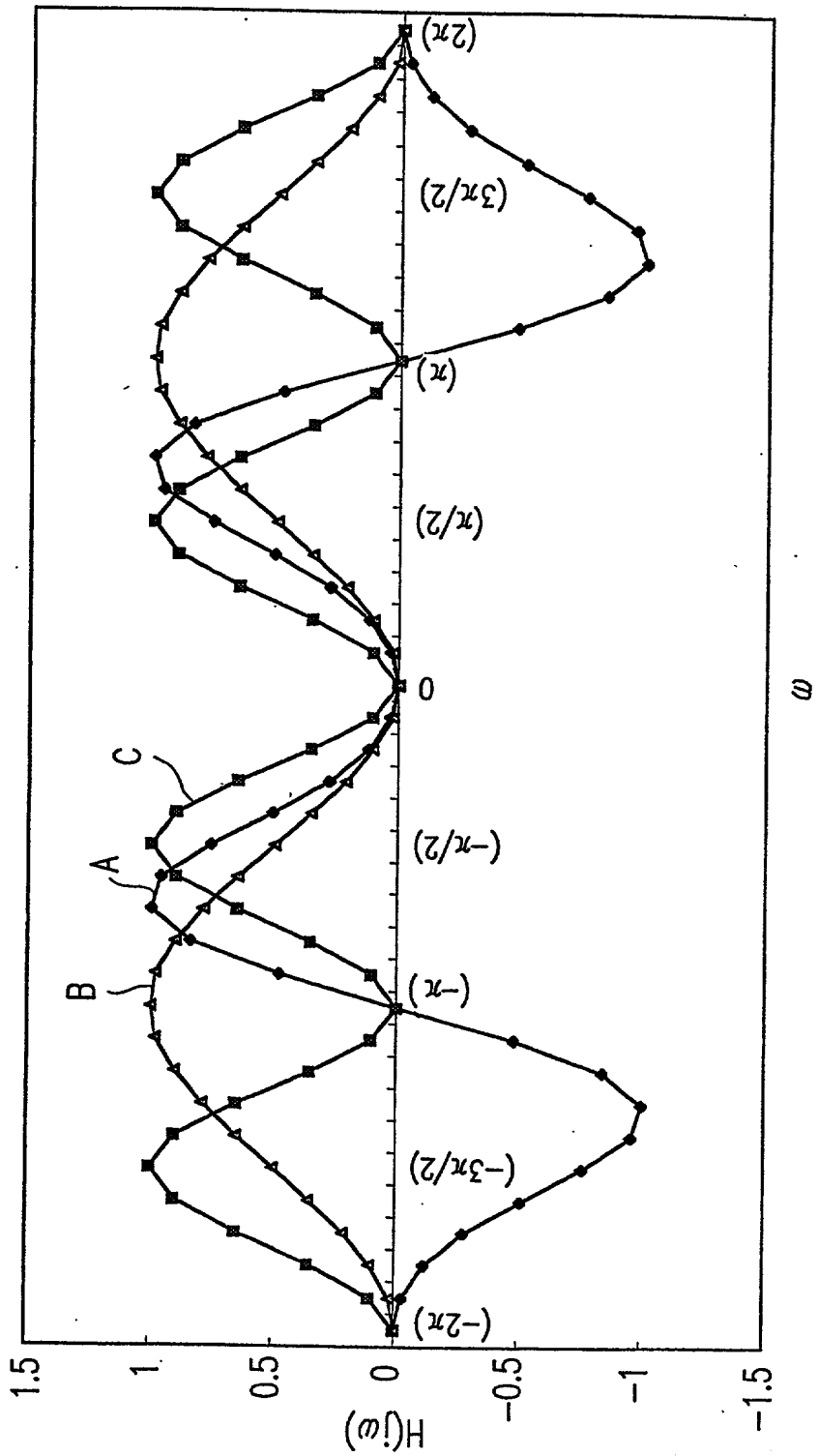


FIG.12

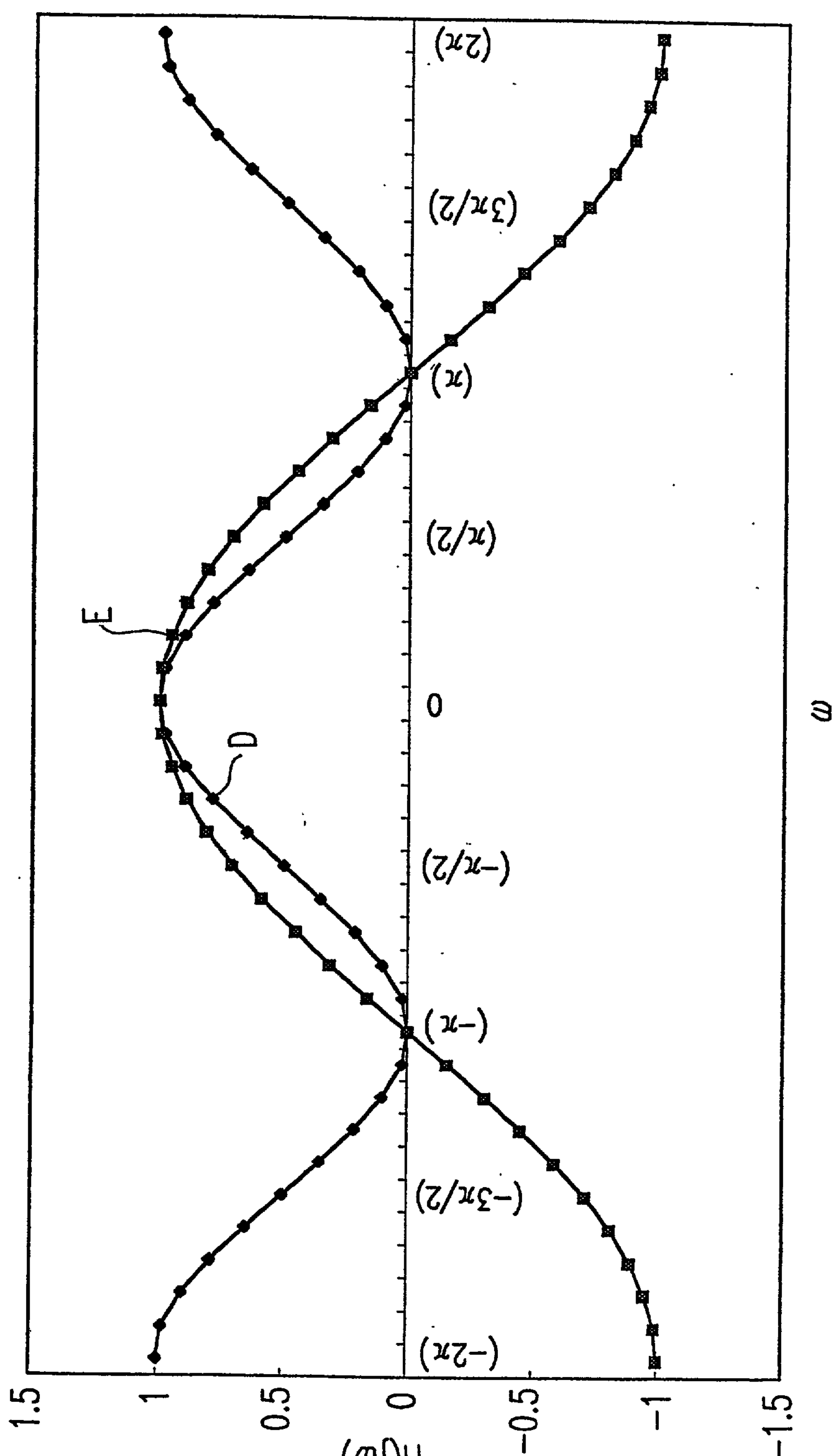
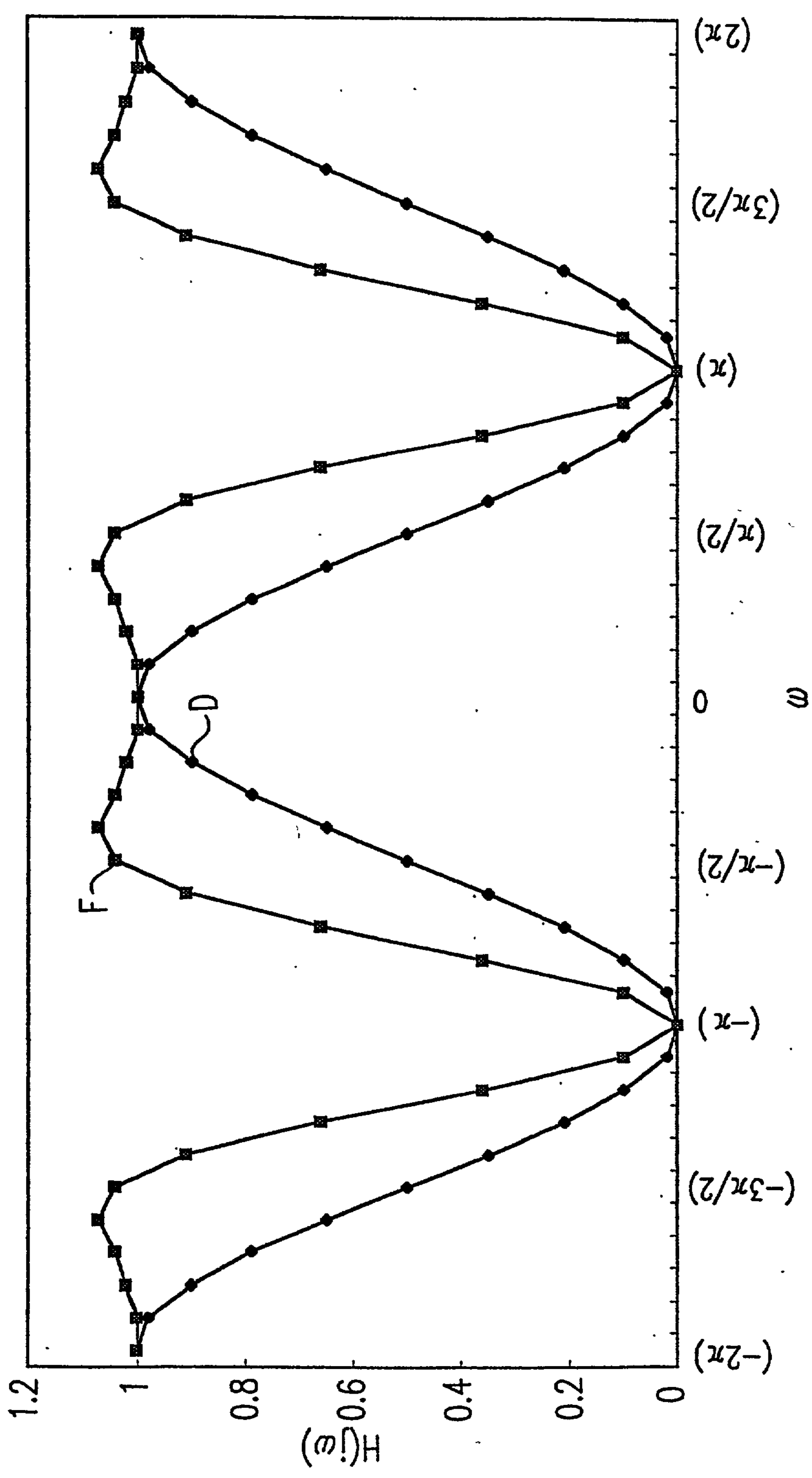


FIG. 13



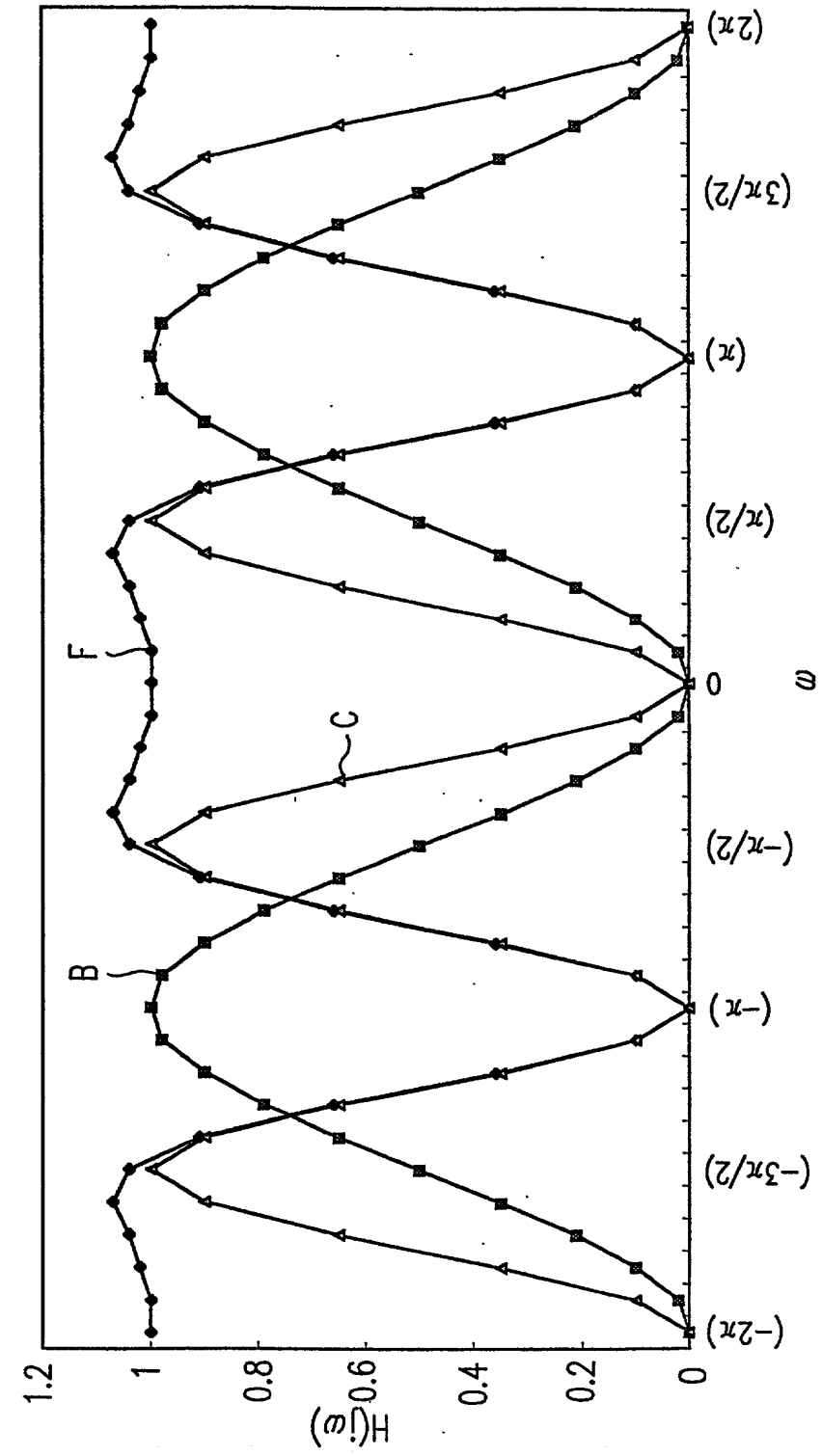
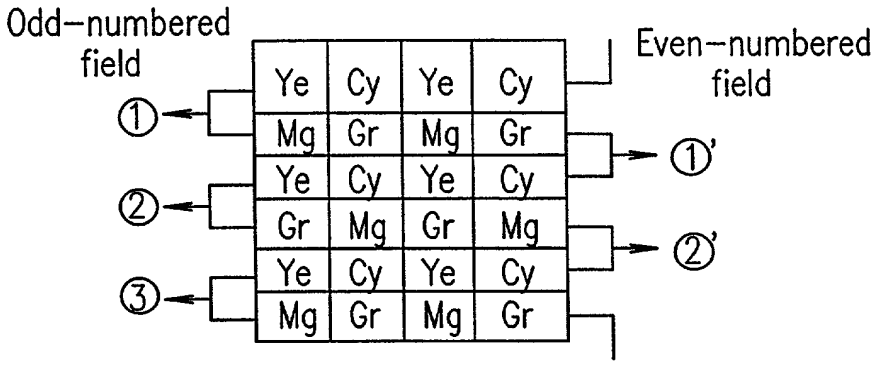


FIG. 14

FIG. 15


Odd–numbered field
Even–numbered field
Ye Cy Ye Cy
Mg Gr Mg Gr
Ye Cy Ye Cy
Gr Mg Gr Mg
Ye Cy Ye Cy
Mg Gr Mg Gr
①
②
③
①'
②'

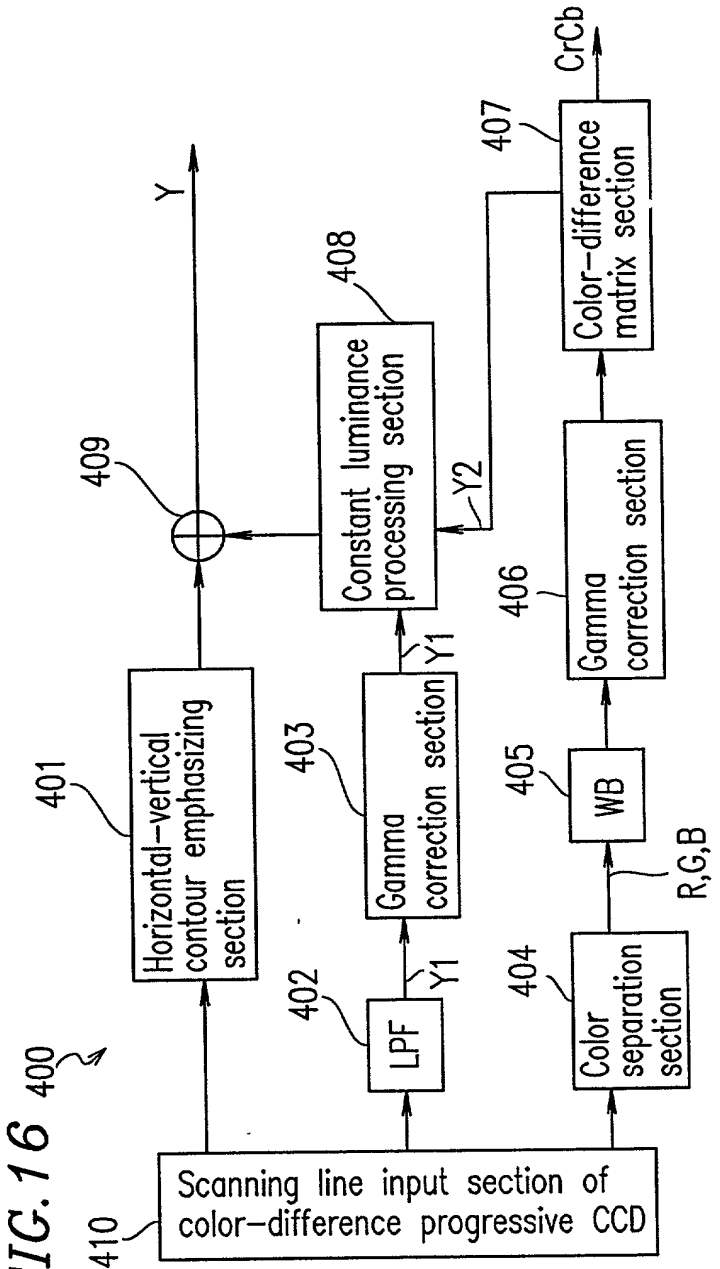


FIG. 16

FIG. 17

1/256	−3/256	10/256	10/256	−3/256	1/256
−3/256	5/256	−42/256	−42/256	5/256	−3/256
10/256	−42/256	64/256	64/256	−42/256	10/256
10/256	−42/256	64/256	64/256	−42/256	10/256
−3/256	5/256	−42/256	−42/256	5/256	−3/256
1/256	−3/256	10/256	10/256	−3/256	1/256